INSTITUTE DATA

FORUM PARTICIPANT

Yoshio Mimura

INSTITUTE NAME

Building Research Institute

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ENTRY DATE

August 1996

STAFF NUMBERS

117 (14 for fire research)

FUNDING

¥2,738M Annual

CAPABILITY STATEMENT

STRATEGIC OBJECTIVES OF RESEARCH

I.	The prevention of disasters
II.	The improvement of the living environment
III.	The rational oganization of building production and the development of new building
	technologies
IV.	The effective use of energy and resources
V.	The promotion of international cooperation

CAPABILITY AREAS

I.	Fire Properties of Materials
II.	Fire Resistance
III.	Fire Physics and Chemistry
IV.	Smoke Movement and Control
V.	Means of Escape
VI.	Fire Safety Design System
VII.	Regulatory Fire Tests

SPECIAL FACILITIES

II.	7-story tower for evaluating smoke movement inight-rise buildings
III.	720 sq.m floor area with 27 m high Burn Hall facility
IV.	A full-scale (2.7 m wide by 3.2 m high) radiant panel facility
V.	A full-scale (2.4 m wide by 3.6 m long by 2.4 m high) room test facility
VI.	85 m by 100 m open field for full scale burn tests and urban fire tests under natural wind

RESEARCH PROGRAM

RESEARCH PROJECTS (Titles and Objectives)

Development of Assessment Methods of Fire Safety Performance

- I. To develop rational fire testing method for building materials, structurered equipment.
- II. To develop fire safety design methods with evaluating fire testing data.
- III. To establish systems for the international standardization of fire safety performance assessment methods.

RECENT RESEARCH HIGHLIGHTS

	1.	Harmonization of fire test methods of building materials and structural element	ts.
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II. Post earthquake fire.

III. Development of performance based fire safety design system.

IV. Development of rational code for means of escape in fire.

V. Prediction of thermal response of structures exposed to localized fires.

COLLABORATION

INTERNATIONAL LINKS

- I. U.S.-Japan National Resource Panel on Fire Research and Safety
 II. Collaborative research on flame spread of interior finishing materials with
 - Sweden

RESEARCH OVERLAP WITH OTHER FORUM PARTICIPANTS

I.

POTENTIAL COLLABORATION THROUGH FORUM

l.	Smoke movement and control for large space
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II. Fire growth modeling

III. Risk assessment modeling for high-rise building

IV. Fire safety design system

V. Harmonization of fire test methods including test methods for burning of interior

finish and fire resistance.

VI. Post earthquake fire

VII. Methods of mutual appraisal of regulatory fire test results.

KEY RESEARCH STAFF

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RECENT PUBLICATIONS

Tanaka, T.; Kumai, S. "Experiments on smoke behavior in cavity space" *Fire Safety Science Proceedings of the 4th International Symposium (Ottawa, Canada, 1994)*, pp.289-300, 1994.

Hasemi, Y.; Yoshida, M.; Yasui, N.; Parker, W.J. "Upward flame spread along a vertical solid for transient local heat release rate" *Fire Safety Science Proceedings of the 4th International Symposium (Ottawa, Canada, 1994)*, pp.385-396, 1994.

Hagiwara, I.; Tanaka, T. "International comparison of fire safety provisions for means of escape" Fire Safety Science Proceedings of the 4th International Symposium (Ottawa, Canada, 1994), pp.633-644, 1994.

Hokugo, A.; Yang, D.; Hadjisophocleous, G.V. "Experiments to validate the NRCC smoke movement model for fire risk-cost assessment" *Fire Safety Science Proceedings of the 4th International Symposium (Ottawa, Canada, 1994)*, pp.805-816, 1994.

Hasemi, Y.; Yokobayashi, Y.: Wakamatsu, T; Ptchelinstev, A.V. "Fire safety of building components exposed to a localized fire", *Proceedings of the first international ASIAFLAM conference 1995*, pp.351-361, 1995.

Suzuki, H. "Fire Spreading Routes and Measures against fire", '94 Asian Fire Science Seminar, 19, Bali, 1994.

Suzuki, H. "The Current Status of Fire Research / Development Program and the Future Trend of Fire Standards in Japan", ???